

## SEQUENCE LISTING

<110> Saint Louis University  
Bode, Barrie  
Fuchs, Bryan

<120> Compositions and Methods for Treating and Diagnosing Hepatoma

<130> SLU03-010

<150> 60/484,728  
<151> 2003-07-02

<160> 13

<170> PatentIn version 3.2

<210> 1  
<211> 2885  
<212> DNA  
<213> Homo sapiens

<400> 1  
 tttttttttt ttttttttaa tagttgacac tcaattttat tgctaaaaaa aatgtcctct 60  
 ggagtgacag caggtatttg tcctcagcct ctccccagag tccctgggag tgtttctgtt 120  
 attgtggagg gaatagggga tctggggaca ggggtgggacg taccatgggg acaggaggtc 180  
 acagaacaca cacacacaca cacacacaca cacacacaca cgtgcacaca cacatcccc 240  
 cacaactaca gccgccaaaa taaccagcat ggtgttgtaa catcccccca gtgggggcta 300  
 gaattcccca tgggtgacctg tgacctgctc cctgagacag gggaggccag gcaggtcacg 360  
 gtggggacgc agcagaacat tattttctcca tcttgctgtt ttctagcctt gagttgggga 420  
 catgagttag aactgggggt tttgaggagt aacccttggt aacacatgta ctccagcagc 480  
 caggcatccc agatctcctg tcctggagggt tgctggggcc cctggctccc cagagtgtgc 540  
 aggagacccc ccagagccct agctcatcca tttatccatt cctcataatc cagtgtccaa 600  
 agagcacccc cagcagggca gggaagggtc ctcccggggt ttacatgact gattccttct 660  
 cagaggcgac cgtggcatcc cctgcggggc cccgatagtg tttgaggagg gggtttcctt 720  
 cctcagtggg gactggcagc ggatccaggg gcagctcact cttcacttgt atcaactcag 780  
 gctctgtgct tctcgactcc gtacgggtcca cataattttg gaggagtcct gccccagag 840  
 cgtcaccttc tacattgagg acggtacagg accggtcgac tagccagtcc acagccagga 900  
 tcaaggagat atggtcgacc gggagggtga ctgcttcgag gatgatggcc agagtgagga 960  
 cacctccagc agggatgccc gctgccccca cgctggacgc tgtggccgtg accaggatgg 1020  
 tgatgatctt tacgaagtcc aaggactgct ggctgagctg tgcaatgaac actgcggcca 1080  
 cgcactggaa gagcgcggca ccgtccatgt tgacgggtggc gccgatgggc aggatgaaac 1140  
 ggctgatgtg cttggccacg ccattattct cctccacgca cttcatcatc agcggcagcg 1200  
 tggcggaact ggaagaggtc ccaaaggcag tggccagcgg cgtcacgatg cccacagga 1260  
 agcggtaggg gtttttgagg gtgaagagga agtagatgag gggcagtacc aggagcccat 1320

```

ggatggcgtg acccagcagg cagcacagaa tgtacttgcc aaggcgggca aagagtaaac 1380
ccacatcctc catctccacg atcttgccag ccaccaggaa catgatgccc acaggggctg 1440
accacatgat ccaggagacc agaaccatgg tggcctcatt gaaggagttg aagaagcgga 1500
taagcagctc cccttcaggc ccagcttcc gcagcgccac accaaagacg atggcaaaca 1560
ctaccaagcc caggatgttc atccccctca cctcctgccc cacgggcacc ttcaccctgg 1620
ttccgggtgat attcctctct tcataggtgg tagagtatga gcgaaaggct gctgacacca 1680
ggttggaagg gaagatattt ctgcgaagat ccaggaaacga atcgagcacc tccttgctgg 1740
gggcattttc ggcaactgccc gcggctccca cggaggcggt gatggcggcg gaggcggcgc 1800
ccggctgcag agccagcgcc aagcccactc cgagcgccga cgccagcagc gtggtgacca 1860
ggaaaaagag cagcgcccag gcgcccagac ggccgagcgc gccgggggtcc aggctggcgg 1920
cgccgcccga caagctgcac accaccagcg gcaagatgat catccgcagc agacgcagca 1980
gcagctcgcc cggaagacg aaggcctcaa gcgctcccgg gcccaacgcc agcgcacccc 2040
cggccccga cccccagt cccagcgcca cgccggccac cacggccacc actgtcagca 2100
gcacaagcag gttggctcga aggcagcggc gcaccaggtc ccgggaaccg cagtagccgc 2160
ctgctgccgc gccttggtcc tcgatggagg ccagctgcca ggcccccggt ggcggtggct 2220
ccgccgctgc gagccccttg gagtctcgag gaggatcggc caccatgatg ggaagcaccg 2280
gggtttctta gcgcctggaa gctggctggg agcgcttggg ctccctccca ggacccgacg 2340
ttcctaggac tgagttgagt aacagcacct ggagactgga actttggagg gctccttaga 2400
gttgtgagtt cacagcactg aagttccttg gctcttgga gctggagtg ttaaattccc 2460
caggctgggc gctgaggctt ctctgctctg ccccggtgtc cagatgtccg aaagctggga 2520
gttcggagcg cccgggttcc ttggccctag gagctgggaa tacgagagtt tctctgggtg 2580
ggacgtgggg cccttggtc caggaggttg agtgcccca gatggcggag gtctgcagga 2640
ggctaggttc tggtggcgca gatcccgga gcctggatcc gggaggcggg gacccgggct 2700
gcctgggtct tggacactga gggctgggat gccagaatct gggggccggg aagcggactc 2760
cggaacacag ggaccaggc tcttaggtcc gggaggggtg gatgcgggcc cctgtgtacg 2820
gaaggcggtg gtctggtgtc cgggagtagc ggtaaccagc cagagaaagc ctcccgggcg 2880
tgccg 2885

```

<210> 2  
<211> 1333  
<212> DNA  
<213> Homo sapiens

```

<400> 2
ctgcgggccc ccgatagtgt ttgaggaggg ggtttccttc ctcagtgggg actggcagcg 60
gatccagggg cagctcactc ttcacttgta tcaactcagg ctctgtgctt ctgcactccg 120

```

tacgggtccac ataattttgg aggagtcctg cccccagagc gtcaccttct acattgagga 180  
 cgggtacagga ccgggtcgact agccagtcca cagccaggat caaggagata tgggtcgaccg 240  
 ggaggttgac tgcttcgagg atgatggcca gagtgaggac acctccagca gggatgcccg 300  
 ctgccccac gctggacgct gtggccgtga ccaggatggt gatgatcttt acgaagtcca 360  
 aggactgctg gctgagctgt gcaatgaaca ctgcggccac gactggaag agcgcgccac 420  
 cgtccatgtt gacggtggcg ccgatgggca ggatgaaacg gctgatgtgc ttggccacgc 480  
 cattattctc ctccacgcac ttcattcatca gcggcagcgt ggcggaactg gaagagggtcc 540  
 caaaggcagt ggccagcggc gtcacgatgc ccacaggaa gcggtagggg tttttgcggg 600  
 tgaagaggaa gtagatgagg ggagtagca ggagcccatg gatggcgtga ccagcaggc 660  
 agcacagaat gtacttgcca aggcgggcaa agagtaaacc cacatcctcc atctccacga 720  
 tcttgccagc caccaggaac atgatgcca caggggcgta ccacatgatc caggagacca 780  
 gaacatggtt ggcctcattg aaggagtga agaagcggat aagcagctcc ccttcaggcc 840  
 ccagcttccg cagcgccaca ccaaagacga tggcaaacac taccaagccc aggatgttca 900  
 tcccctccac ctctgcccc acgggcacct tcacctggt tccggtgata ttcctctctt 960  
 cataggtggt agagtatgag cgaaaggctg ctgacaccag gttggaaggg aagatatttc 1020  
 tcgcaagatc caggaacgaa tcgagcacct ccttgctggg ggcattttcg gactgcccg 1080  
 cggctccac ggaggcggtt atggcgggcg aggcggcgcc cggctgcaga gccagcgcca 1140  
 agcccactcc gagcgccgac gccagcagcg tggtgaccag gaaaaagagc agcgcccagg 1200  
 cgcccagacg gccgagcgcg ccgggggtcca ggctggcggc gccgccgatc aagctgcaca 1260  
 ccaccagcgg caagatgatc atccgcagca gacgcagcag cagctcgccc gggaagacga 1320  
 aggcctcaag cgc 1333

<210> 3  
 <211> 19  
 <212> DNA  
 <213> Homo sapiens

<400> 3  
 aggaggtgct cgattcgtt 19

<210> 4  
 <211> 19  
 <212> DNA  
 <213> Homo sapiens

<400> 4  
 agcacatcag ccgtttcat 19

<210> 5  
 <211> 19  
 <212> DNA  
 <213> Homo sapiens

<400> 5  
tcctcgaagc agtcaacct 19

<210> 6  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 6  
gagcctgagt tgatacaag 19

<210> 7  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 7  
aatttaggtg acactataga 20

<210> 8  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 8  
ggaactgcag gatccaaaga 20

<210> 9  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 9  
aggtcagcag gaggtggatg 20

<210> 10  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 10  
atggatccca tggaactgag 20

<210> 11  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 11  
ggccatggca taggacaagc 20

<210> 12  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 12  
ccgctgatga tgaagtcg 18

<210> 13  
 <211> 18  
 <212> DNA  
 <213> Homo sapiens

<400> 13  
 ccccgatag tgtttgag

18